

Appl. No.	:	10/619,842	Confirmation No. 7619
Applicants	:	Strom W. Smith	
Filed	:	July 15, 2003	
TC/A.U.	:	1764	
Examiner	:	Tom Duong	
Docket No.	:	141.015	
Customer No.	:	9809	

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-8 and 14-18.

Claim 9 (previously amended): A sealing device for a sulfur trap of the type comprising an upper chamber for receiving liquid sulfur and process gas and a lower chamber for receiving liquid sulfur, said device comprising:

an opening between said upper chamber and said lower chamber;

a hollow cylinder extending upwardly from said opening into said upper chamber;

said cylinder having an upper edge;

a float;

said float consisting of a generally spherical structure with a counterweight attached;

said float and said counterweight having a combined average density less than the density of molten sulfur;

said counterweight having a beveled peripheral surface and a lower surface;

said cylinder upper edge having a beveled upper edge surface;

said counterweight beveled peripheral surface and said beveled upper edge surface sealingly engaged in a float first position; and

said counterweight lower surface at least partially arcuate.

Claim 10 (Original): The sealing device of claim 9, further comprising:

said float moveable between said float first position and a float floating position;

said counterweight supported on said cylinder upper edge in said float first position; and

said counterweight removed from said cylinder upper edge in said float floating position.

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Claim 11 (Original): The sealing device of claim 9, further comprising:

said counterweight lower surface below said beveled peripheral surface;

said counterweight lower surface extending inside said cylinder in said float first position.

Claim 12 (Original): The sealing device of claim 9, further comprising:

a cleaning rod attached to said counterweight; and

said cleaning rod extending downwardly into said cylinder.

Claim 13 (Original): The sealing device of claim 12, further comprising:

said hollow cylinder having an interior surface;

said cleaning rod so sized and constructed to engage said interior surface upon relative movement of said float in relation to said cylinder.

Add new claim 19 as follows:

Claim 19 (New): A sealing device for a sulfur trap of the type comprising an upper chamber for receiving liquid sulfur and process gas and a lower chamber for receiving liquid sulfur, said device comprising:

an opening between said upper chamber and said lower chamber;

a hollow cylinder extending upwardly from said opening into said upper chamber;

said cylinder having an upper edge having a beveled upper edge surface;

a float;

a counterweight attached to said float, said counterweight having a beveled peripheral

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surface and a lower extension below said beveled peripheral surface;

said counterweight constructed to sealingly engage said upper edge in a float first position, said lower extension extending inside said hollow cylinder in said float first position;

said float and said counterweight having a combined average density less than the density of molten sulfur;

said float moveable between said float first position and a float floating position;

and

said float laterally moveable in said float floating position.